Black & Decker®

POWER TOOLS

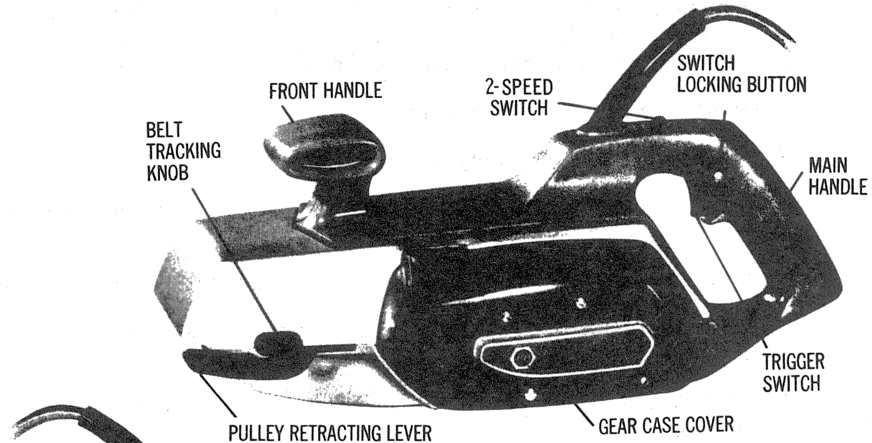
THE BLACK & DECKER MFG. CO., TOWSON, MD. 21204, U.S.A.

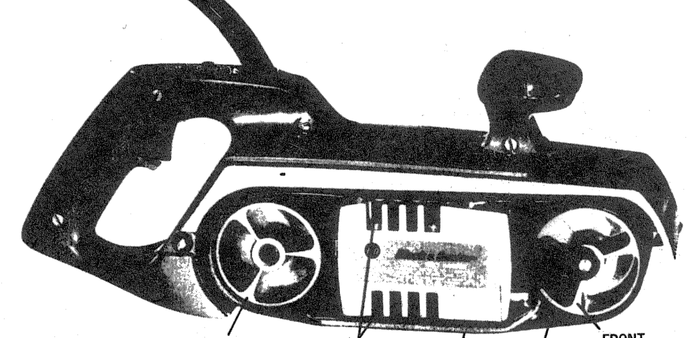
Form No. 97746 AL

Printed in U.S.A.

Black & Decker®

OWNER'S MANUAL





SAFETY SEAL pti power tool institute

BELT SIZE: 3" x 24"

BELT SPEED: High — 1250, Low — 1050 Feet per Minute

SANDING SURFACE: 13.8 Sq. Inches

115 Volts A.C. 5.7 Amps. ¾ H.P.

No. 4022•836 2-SPEED BELT SANDER

SAFETY SEAL pti
power tool institute

SAFETY RULES FOR POWER TOOLS

1. **KNOW YOUR POWER TOOL** — Read owner's manual carefully. Learn its applications and limitations as well as the specific potential hazards peculiar to this tool.
2. **GROUND ALL TOOLS — UNLESS DOUBLE-INSULATED.** If tool is equipped with three-prong plug, it should be plugged into a three-hole electrical receptacle. If adapter is used to accommodate two-prong receptacle, the adapter wire must be attached to a **known ground. Never** remove third prong.
3. **KEEP GUARDS IN PLACE** and in working order.
4. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
5. **AVOID DANGEROUS ENVIRONMENT.** Don't use power tool in damp or wet locations. And keep work area well lit.
6. **KEEP CHILDREN AWAY.** All visitors should be kept safe distance from work area.
7. **STORE IDLE TOOLS.** When not in use, tools should be stored in dry, high or locked-up place — out of reach of children.
8. **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
9. **USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy duty tool.
10. **WEAR PROPER APPAREL.** No loose clothing or jewelry to get caught in moving parts. Rubber gloves and footwear are recommended when working outdoors.
11. **USE SAFETY GLASSES** with most tools. Also face or dust mask if cutting operation is dusty.
12. **DON'T ABUSE CORD.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil and sharp edges.
13. **SECURE WORK.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
14. **DON'T OVERREACH.** Keep proper footing and balance at all times.
15. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp at all times, and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
16. **DISCONNECT TOOLS.** When not in use, before servicing; when changing accessories such as blades, bits, cutters, etc.
17. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
18. **AVOID ACCIDENTAL STARTING.** Don't carry plugged-in tool with finger on switch.

GUARANTEE

Black & Decker will correct, without charge, any defect **AT ANY TIME** which, upon examination at one of our Factory Service Branches, Authorized Service Stations, or Factories, is found to be due to faulty material or workmanship. The guarantee does not apply in cases of misuse or careless handling or where repairs or replacements have been made or attempted by others. Any transportation charges for delivering the unit for examination must be prepaid.

IF THE TOOL WON'T RUN

First, check the outlet by plugging in another tool or lamp. If these don't work, check the service panel for blown fuses. If current is present, check plugs and sockets for tight fits. If there is something wrong with the tool, don't attempt any major repair on your own. Take it or send it to the nearest Service location shown below for repair. A free parts diagram of your B&D tool is available by writing the Black & Decker Factory Service Center nearest you.

FACTORY SALES & SERVICE BRANCHES



	Area Code	Telephone No.
ALABAMA: Birmingham 35233, 1717 Third Ave., South	205	324-6691
ARIZONA: Phoenix 85004, 537 E. McDowell Rd.	602	AL 8-1332
ARKANSAS: Little Rock 72201, 519 West Seventh Street	501	FR 2-3040
CALIFORNIA: Anaheim 92802, 1235 So. Euclid Ave.	714	772-4050
Los Angeles 90007, 2432 S. Broadway	213	RI 9-0371
Oakland 94606, 1107 E. 14th St.	415	TE 4-5944
Sacramento 95814, 1915 Seventeenth Street	916	444-3188
San Diego 92105, 3811 El Cajon Blvd.	714	AT 1-3331
San Francisco 94080, 1139 Airport Blvd.	415	871-7278
Santa Clara 95050, 2291 The Alameda	408	241-9162
COLORADO: Denver 80204, 675 Kalamath St.	303	222-0621
CONNECTICUT: Hartford 06114, 131 Meadow Street	203	249-6241
FLORIDA: Jacksonville 32208, 5224 Pearl Street	904	356-2951
Miami 33142, 2075 N.W. 54th Street	305	NE 3-9839
Orlando 32806, 940 So. Orange Ave.	305	423-1651
Tampa 33609, 3041 J. F. Kennedy Blvd.	813	839-5323
GEORGIA: Atlanta 30313, 316 Techwood Drive, N.W.	404	JA 4-0431
HAWAII: Honolulu 96813, 675 Auahi Street	808	569-374
ILLINOIS: Chicago 60607, 1100 W. Jackson Blvd.	312	TA 9-3500
Chicago 60646, Lincolnwood, 6710 N. Crawford Ave.	312	OR 3-0923
Chicago 60643, Beverly Hills, 10708 S. Western Ave.	312	BE 3-6832
Rock Island 61201, 725 30th Street	309	788-1744
INDIANA: Evansville 47708, 931 Bond Street	812	425-4269
Indianapolis 46207, 1125 W. 16th Street	317	632-5569
IOWA: Des Moines 50312, 2811 Ingersoll Ave.	515	CH 4-7257
KANSAS: Wichita 67214, 203 N. Mathewson Street	316	FO 3-6571
KENTUCKY: Louisville 40209, 4407 Park Blvd.	502	366-1495
LOUISIANA: New Orleans 70112, 2010 Poydras Street	504	522-2544
MARYLAND: Baltimore 21211, 203 West 28th Street	301	HO 7-7411
Baltimore 21205, 4712 Erdman Ave.	301	485-5550
Bladensburg 20710, 4501 Baltimore Avenue	301	779-3808
MASSACHUSETTS: Boston 02135, 12 Market St. (Brighton)	617	ST 2-6264
MICHIGAN: Detroit 48219, 18133 W. McNicholas Rd.	313	534-8880
Detroit 48234, 11360 East Seven Mile Road	313	527-5010
Grand Rapids 49509, 3662 Clyde Park Ave., S.W.	616	534-7708
MINNESOTA: Minneapolis 55408, 2815 Nicollet Ave.	612	TA 3-5283
MISSOURI: Kansas City 64108, 2705 McGee Trafficway	816	HA 1-1493
St. Louis 63110, 615 S. Vandeventer Ave.	314	JE 3-2210
NEBRASKA: Omaha 68102, 2218 Leavenworth Street	402	345-2330
NEW JERSEY: Newark 07104, 868 Broadway	201	HU 3-1076

	Area Code	Telephone No.
NEW MEXICO: Albuquerque 87110, 4700 Lomas Blvd, N.E.	505	265-6401
NEW YORK: Buffalo 14209, 881 W. Delevan Ave.	716	TT 4-6220
New York 10462, 1894 E. Tremont Avenue (Bronx)	212	SY 2-2700
New York 10014, 227 Varick St. (Manhattan)	212	WA 9-6450
New York 11377, 56-15 Queens Blvd. (Woodside)	212	DE 5-1042
Rochester 14620, 476 Clinton Ave., S.	716	454-3814
Syracuse 13224, 2140 Erie Blvd., E.	315	446-3086
NORTH CAROLINA: Charlotte 28206, 1710 N. Graham St.	704	FR 5-3721
Fayetteville 28306, P.O. Box 4305, Highway 301, S.	919	425-1181
Greensboro 27403, 1008 W. Lee Street	919	275-0906
OHIO: Cincinnati 45203, 1225 Western Ave.	513	421-2275
Cleveland 44113, 3901 Detroit Ave.	216	OL 1-4243
Columbus 43202, 3293 N. High Street	614	268-5797
Dayton 45420, 617 Watervliet St.	513	252-1821
Solon 44139, 6225 Cochran Road	216	CH 8-5330
Toledo 43606, 2629 W. Central Ave.	419	475-6771
OKLAHOMA: Oklahoma City 73106, 1318 Linwood Blvd.	405	CE 2-7515
Tulsa 74145, 3120 South Sheridan Road	918	622-5666
OREGON: Portland 97209, 1640 N.W. Johnson Street	503	CA 8-8631
PENNSYLVANIA: Harrisburg 17112, 6070 Allentown Blvd.	717	KI 5-0651
Lancaster 17604, 715 Fountain Ave.	717	393-5831
Philadelphia 19103, 333 No. 20th Street	215	LO 4-5520
Pittsburgh 15232, 5437 Baum Blvd.	412	362-2700
RHODE ISLAND: E. Providence 02914, 2777 Pawtucket Ave.	401	434-1655
SOUTH CAROLINA: Greenville 29601, 407 Pendleton St.	803	232-3038
TENNESSEE: Knoxville 37917, 1123 North Central St.	615	546-2481
Memphis 38106, 921 South Third St.	901	WH 2-3244
Nashville 37203, 601 Eighth Ave., S.	615	254-1061
TEXAS: Amarillo 79106, 3008 West 6th Ave.	806	DR 3-1531
Dallas 75207, 1808 N. Industrial Blvd.	214	RI 1-6401
Fort Worth 76103, 1801 Bomar Street	817	ED 6-0175
Houston 77003, 105 Sampson Street	713	CA 8-7521
San Antonio 78210, 1314 S. St. Mary's Street	512	LE 4-4611
UTAH: Salt Lake City 84115, 1541 S. Second West St.	801	HU 6-7056
VIRGINIA: Falls Church 22046, 129 Annandale Road	703	533-1147
Norfolk 23517, 337 W. 21st Street	703	625-6888
Richmond 23222, 1424 Chamberlayne Ave.	703	649-9245
WASHINGTON: Seattle 98109, 434 Eighth Ave., N.	206	MA 3-6442
Spokane 99202, 3025A E. Mission Ave.	509	KE 4-7188
WEST VIRGINIA: Charleston 25312, 1638 Sixth Ave.	304	343-0289
WISCONSIN: Milwaukee 53213, 6301 Blue Mound Road	414	GR 6-7800

BLACK & DECKER MFG. CO., Limited, Canada

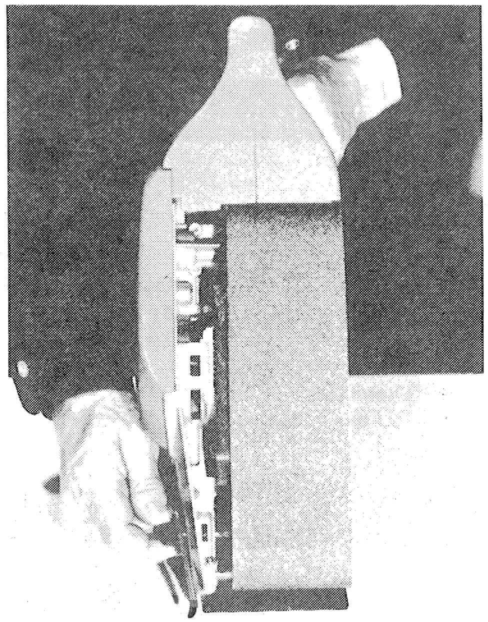
BROCKVILLE, ONTARIO	Water Street
CALGARY, ALBERTA	1003 11th Avenue, S.W.
EDMONTON, ALBERTA	11440 Ave.—142 Street
HALIFAX, NOVA SCOTIA	803 McLean Street
HAMILTON, ONTARIO	180 Parkdale Ave., N.
LONDON, ONTARIO	Kings Shopping Plaza (972 Hamilton Rd.)
MONTREAL 10, P. Q.	7865 St. Lawrence Blvd.
MONTREAL WEST, P. Q.	158 Ronald Drive
OTTAWA, ONTARIO	418 Laurier Avenue, West
DON MILLS (Toronto)	2 Valleybrook Drive
QUEBEC CITY, P. Q.	330 St. Roch Street
REGINA, SASKATCHEWAN	1076 Albert Street
KITCHENER, ONTARIO	277 E. Manitou Drive
SHERBROOKE, CANADA	1550 King Street, West
VANCOUVER 10, B. C.	167 West 2nd Ave.
WINDSOR, ONTARIO	3950 Malden Road
WINNIPEG 10, MANITOBA	955 Portage Ave.

AUTHORIZED SERVICE STATIONS

ALABAMA: Montgomery
ALASKA: Anchorage, Fairbanks
ARIZONA: Tucson
CALIFORNIA: Fresno, Stockton
CONNECTICUT: New Haven
DELAWARE: Wilmington
FLORIDA: Pensacola
IDAHO: Boise, Lewiston
MAINE: Westbrook
MISSISSIPPI: Jackson
NEVADA: Reno
NEW YORK: Schnectady
OHIO: Youngstown
PENNSYLVANIA: Allentown, Erie
SOUTH CAROLINA: Charleston
SOUTH DAKOTA: Rapid City
TEXAS: Corpus Christi, El Paso
VIRGINIA: Roanoke
WASHINGTON: Yakima
WEST VIRGINIA: Wheeling

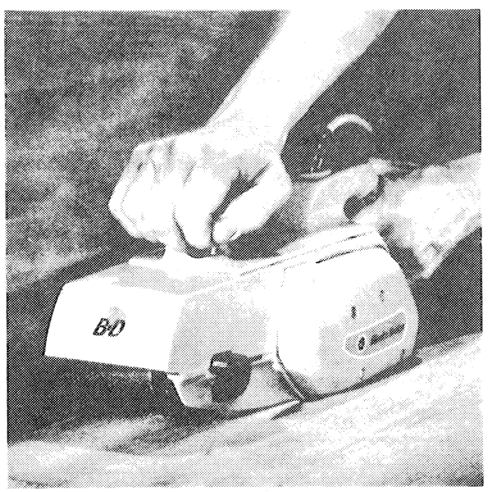
BELT TRACKING ADJUSTMENT

Before sanding with a new belt, plug in the tool and hold it in the position shown in figure at right. Depress the switch and note whether the belt "tracks" evenly, keeping its outer edge flush with the outer edge of the shoe. If the belt starts to deviate from a straight track, rotate the Tracking Adjustment Knob slightly forward or backward until belt tracks evenly. When sanding, occasionally check to see if belt is tracking properly and adjust when necessary.



OPERATION

Start the tool with the belt off of the work. Hold both handles firmly and begin your initial sanding stroke as the tool contacts the work. Keep the Sander moving to insure even sanding, and, in most cases, the weight of the tool provides sufficient pressure for proper sanding. Lift the Sander from the work before turning tool "OFF" to prevent gouging. High speed operation can be used for fast removal of material. Low speed is recommended for a final smooth finish.

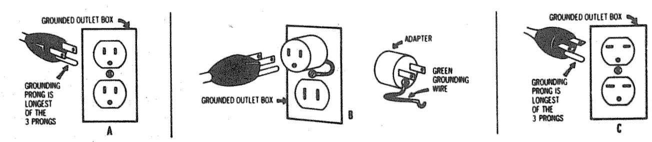


SAFETY WITH BELT SANDERS

1. Before changing belts, or at any time the tool is not actually being used, be sure that the trigger switch is in the "OFF" position and that the cable is unplugged from the power supply.
2. Before plugging in the cable, be sure that the trigger switch is in the "OFF" position.
3. When starting or stopping the Sander hold the tool off of the work surface to prevent it from "running away" or gouging.
4. Use correct size belts — 3" x 24".

GROUNDING

EVERY ELECTRIC TOOL SHOULD BE GROUNDED while in use to protect the operator against shock. This unit is equipped with approved 3-conductor cord and 3-blade grounding type attachment plug to be used with the proper grounding type receptacle. The green colored conductor in the cord is the grounding wire. Never connect the green wire to a "live" terminal. If your unit requires less than 150 volts, it has a plug that looks like fig. "A". A special grounding adapter (Fig. "B") is available from your dealer to permit using 2-wire receptacle until the correct receptacle is properly installed. The green grounding wire extending from the side of the adapter must be connected to a PERMANENT GROUND such as a properly grounded outlet box. If the unit requires from 150 to 250 volts it has a plug like Figure "C". No adapter is available and it should be used in the proper standard matching 3-wire grounding receptacle.



CABLE

When using the tool at a considerable distance from power source, a properly grounded extension cable of adequate size must be used to prevent loss of power and over-heating. Use table at right for 115 Volt tools.

Ext. cable length in feet	25	50	75	100	150	200
Required wire size (A.W.G.) in cable	18	16	14	12	12	10

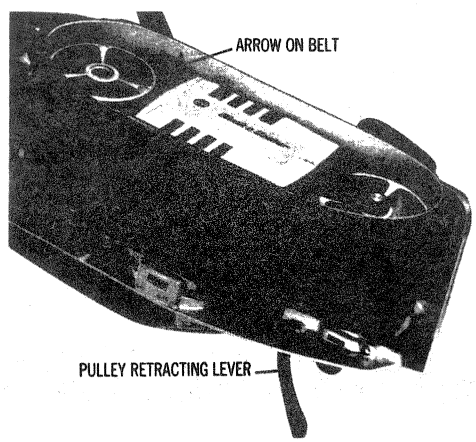
SWITCHES

PRACTICE THE FOLLOWING BEFORE PLUGGING TOOL INTO POWER SUPPLY:

1. Pulling the Trigger Switch turns the motor "ON" and puts the belt in motion. Releasing the Trigger turns the motor "OFF" and stops the belt.
2. To lock the motor "ON" for continuous sanding —
   (a) Pull and hold back the Trigger.
   (b) Depress and hold in the Locking Button.
   (c) Release Trigger and release Locking Button and tool will stay "ON".
   (d) To turn tool "OFF," pull and release Trigger.
3. 2-Speed Switch is located on top of handle. Push forward for high speed, push back for low speed. Switch position may be changed while motor is in operation. High speed 1250 feet per minute, low speed 1050 feet per minute.
4. Always lift the Sander so that the belt is free from contact with any material before turning the tool "ON." This will prevent a sudden forward "jump" of the tool as the belt begins to move.

CHANGING BELTS

1. UNPLUG TOOL FROM POWER SUPPLY.
2. Pull out the Pulley Retracting Lever which releases the tension on the belt.
3. The worn belt can then be slipped off the pulleys and be replaced by a new one. See figure at right. Be sure that the arrow stamped on the belt points in the direction around the pulleys as shown.
4. The outer edge of the new belt should be lined up flush with the outer edge of the shoe. Push Pulley Retracting Lever back in close to the tool.
5. Adjust for proper belt tracking as follows on next page.



BELT SANDER CARE & CLEANING

All bearings in your Belt Sander are of the sealed-lubricant type and do not require any relubrication.

Frequent cleaning of all accessible areas in and around the housing, with a vacuum cleaner nozzle, will keep your tool running cooler and more efficiently.
If you notice the tool motor running slower than usual or losing power; or, you notice heavy sparking through the air intake slots, immediately take or send the tool to your nearest B&D Service Center for possible motor-brush replacement and a thorough cleaning and inspection.

COMMUTATOR AND BRUSHES

Inspect carbon brushes often. The brushes are located under the motor housing cover, to which the name plate is secured, on the flush side of the sander. Make certain cable is unplugged from power supply. Remove the two screws at the top of this cover. The name plate will act as a hinge, and the top half of the cover can be lowered providing access to the motor brushes. Replace when brushes are worn down to the identifying letter or groove or when spring exerts insufficient pressure to hold brush against commutator. Keep brushes clean and sliding freely in guides. Inspect commutator for dirt and excessive wear. If dirty or rough, clean lightly with very fine sandpaper (NOT emery cloth). If badly worn or grooved, send tool to our nearest service station for repair.

3" x 24" SANDING BELTS

These Belts are precision-made, cut and bonded for accurate fit. Use on Black & Decker and other make Belt Sanders using a 3" x 24" belt.

C58368	36 coarse	CLOSED COAT ALUMINUM OXIDE for unfinished or new wood, ferrous metal, non-ferrous metals (aluminum, lead, copper, solder).
C58370	40 coarse	
C58372	50 medium	
C58374	60 medium	
C58376	80 medium	
C57378	100 fine	
C58380	120 fine	
C58367	24 coarse	OPEN COAT ALUMINUM OXIDE for removing lacquer, paint or varnish. Also for green or resinous wood.
C58369	36 coarse	
C58371	40 coarse	
C58373	50 medium	
C58375	60 medium	
C58377	80 medium	
C58379	100 fine	